

# Converting Colors

CIELCh(54, 4.761, 87.219)

Have a look what the booklet for  
CIELCh(54, 4.761, 87.219) contains.

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# Color

**CIELCh(54, 4.862, 90.012)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	858179
RGB	133, 129, 121
RGB Percent	52%, 51%, 47%
CMY	0.4794, 0.4951, 0.5265
CMYK	0.00, 0.03, 0.09, 0.48
HSL	40°, 5%, 50%
HSV	40°, 9%, 52%
XYZ	20.8859, 21.9746, 21.1498
YIQ	129.2840, 4.9520, -1.6400

# Conversions

## Conversions Part 2

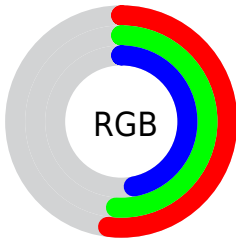
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	127, 133, 121
Decimal	8749433
CIE Lab	54.00, -0.00, 4.86
CIE LCh	54, 4.862, 90.012
Yxy	21.9746, 0.3263, 0.3433
Android (android.graphics.Color)	4286939513 (0xFF858179)
YUV	129.2840, -4.0840, 3.2589
Hunter-Lab	46.8770, -2.5046, 6.0636

# Details

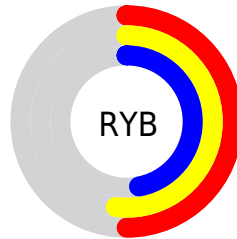
The CIELCh color  $54, 4.862, 90.012$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $52, 4.864, 272.310$ , and the grayscale version is  $54, 0.007, 296.813$ .

A 20% lighter version of the original color is  $74, 5.071, 92.236$ , and  $34, 4.563, 92.333$  is the 20% darker color. If you saturate the color by 10%, you get  $52, 10.357, 88.816$ , and if you desaturate by 10%, it is  $56, 0.520, 271.599$ .

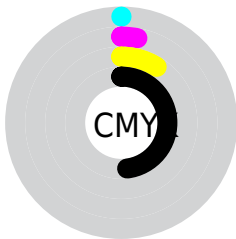
# Distribution



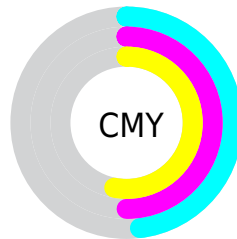
- Red (52%)
- Green (51%)
- Blue (47%)



- Red (50%)
- Yellow (52%)
- Blue (47%)



- Cyan (0%)
- Magenta (3%)
- Yellow (9%)
- Black (48%)



- Cyan (48%)
- Magenta (50%)
- Yellow (53%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 54, 4.862, 90.012 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 54, 4.862, 90.012 by changing the saturation by 10% instead.



 54, 4.862, 90.012       54, 4.862, 90.012

 100, 4.862, 90.012       44, 4.862, 90.012


 74, 4.862, 90.012       34, 4.862, 90.012

 84, 4.862, 90.012       24, 4.862, 90.012

 94, 4.862, 90.012       14, 4.862, 90.012

 4, 4.862, 90.012

 0, 4.862, 90.012

 54, 4.862, 90.012       54, 4.862, 90.012

 52, 10.357, 88.816       56, 0.520, 271.599

 51, 15.956, 87.550       57, 5.794, 272.433

49, 21.641, 86.244

59, 10.964,  
273.516

48, 27.366, 84.900

61, 16.037,  
274.559

47, 33.042, 83.510

45, 38.502, 82.051

62, 21.019,  
275.555

44, 43.457, 80.471

64, 25.919,  
276.502

43, 47.458, 78.668

41, 50.534, 76.682

66, 30.743,  
277.401

67, 35.497,  
278.252

69, 40.186,  
279.058

# Harmonies

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



54, 4.862, 90.012



52, 4.864, 272.310

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



54, 4.862, 90.012



54, 4.862, 140.012



54, 4.862, 270.012



54, 4.862, 320.012

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



54, 4.863, 90.029



70, 1.991, 90.673



52, 5.375, 354.445



36, 1.505, 90.607



86, 0.010, 296.813



37, 0.005, 296.813



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



54, 4.863, 90.029



69, 7.382, 89.767



55, 6.912, 116.082



27, 3.032, 90.019



40, 50.117, 76.571



0, 0.722, 91.140





# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



52, 4.864, 272.310



66, 7.376, 272.604



51, 7.049, 297.363



26, 3.033, 272.322



21, 57.558, 295.505



0, 0.722, 271.147



# Previews

## White Background



This preview shows how the CIELCh color 54, 4.862, 90.012 looks on a white background.

## Color Contrast Check

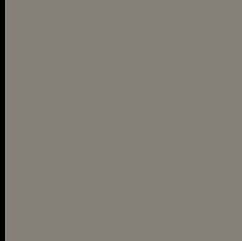
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 54, 4.862, 90.012 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

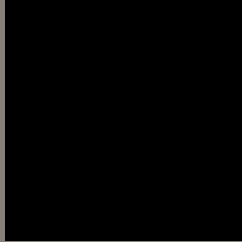
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

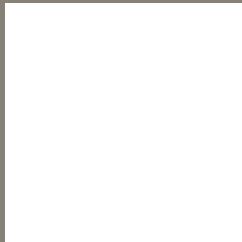
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 54, 4.862, 90.012**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 54, 4.862, 90.012.



This preview shows how white text looks on a background with the CIELCh color 54, 4.862, 90.012.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

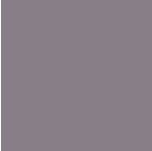
54, 4.862, 90.012

### Protanopia

54, 4.862, 90.012

### Deuteranopia

54, 8.015, 32.529



**Tritanopia**  
54, 6.798, 322.032



# Trichromacy



**Original Color**  
54, 4.862, 90.012

**Protanomaly**  
54, 4.862, 90.012

**Deuteranomaly**  
54, 6.181, 41.669

**Tritanomaly**  
54, 3.294, 348.030

# Monochromacy



**Original Color**  
54, 4.862, 90.012

**Achromatopsia**  
54, 0.007, 296.813

**Achromatomaly**  
54, 1.761, 96.811

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 54, 4.862, 90.012 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(133, 129, 121)` looks like.

```
.text, #text, p{  
    color:rgb(133, 129, 121)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(133, 129, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 129, 121) }
```

## Border

The CSS property to change the border of an element to CIELCh 54, 4.862, 90.012 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(133, 129, 121) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(133, 129, 121) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(133, 129, 121)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 129, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 129, 121);  
box-shadow:4px 4px 4px 4px rgb(133, 129,  
121) }
```

# Background

The CSS property to change the background color of an element to CIELCh 54, 4.862, 90.012 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 129, 121) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(133,  
129, 121) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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